

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/042,460

#8 1642

DATE: 08/08/98
TIME: 15:56:28

INPUT SET: S27965.raw

This Raw Listing contains the General
Information Section and up to the first 5 pages.

SEQUENCE LISTING

ENTERED

1
2
3 (1) General Information:
4
5 (i) APPLICANT: Morin, Gregg B.
6 Allsopp, Richard
7 DePinho, Ronald
8 Greenberg, Roger
9
10 (ii) TITLE OF INVENTION: Mouse Telomerase Reverse Transcriptase
11
12 (iii) NUMBER OF SEQUENCES: 101
13
14 (iv) CORRESPONDENCE ADDRESS:
15 (A) ADDRESSEE: Townsend and Townsend and Crew LLP
16 (B) STREET: Two Embarcadero Center, Eighth Floor
17 (C) CITY: San Francisco
18 (D) STATE: California
19 (E) COUNTRY: USA
20 (F) ZIP: 94111-3834
21
22 (v) COMPUTER READABLE FORM:
23 (A) MEDIUM TYPE: Floppy disk
24 (B) COMPUTER: IBM PC compatible
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS
26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
27
28 (vi) CURRENT APPLICATION DATA:
29 (A) APPLICATION NUMBER: US 09/042,460
30 (B) FILING DATE: 16-MAR-1998
31 (C) CLASSIFICATION:
32
33 (vii) PRIOR APPLICATION DATA:
34 (A) APPLICATION NUMBER: US 08/724,643
35 (B) FILING DATE: 01-OCT-1996
36
37 (vii) PRIOR APPLICATION DATA:
38 (A) APPLICATION NUMBER: US 08/844,419
39 (B) FILING DATE: 18-APR-1997
40
41 (vii) PRIOR APPLICATION DATA:
42 (A) APPLICATION NUMBER: US 08/846,017
43 (B) FILING DATE: 25-APR-1997
44
45 (vii) PRIOR APPLICATION DATA:
46 (A) APPLICATION NUMBER: US 08/851,843

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/042,460DATE: 08/08/98
TIME: 15:56:29

INPUT SET: S27965.raw

47 (B) FILING DATE: 06-MAY-1997
48
49 (vii) PRIOR APPLICATION DATA:
50 (A) APPLICATION NUMBER: US 08/854,050
51 (B) FILING DATE: 09-MAY-1997
52
53 (vii) PRIOR APPLICATION DATA:
54 (A) APPLICATION NUMBER: US 08/911,312
55 (B) FILING DATE: 14-AUG-1997
56
57 (vii) PRIOR APPLICATION DATA:
58 (A) APPLICATION NUMBER: US 08/912,951
59 (B) FILING DATE: 14-AUG-1997
60
61 (vii) PRIOR APPLICATION DATA:
62 (A) APPLICATION NUMBER: US 08/915,503
63 (B) FILING DATE: 14-AUG-1997
64
65 (vii) PRIOR APPLICATION DATA:
66 (A) APPLICATION NUMBER: WO PCT/US97/17618
67 (B) FILING DATE: 01-OCT-1997
68
69 (vii) PRIOR APPLICATION DATA:
70 (A) APPLICATION NUMBER: WO PCT/US97/17885
71 (B) FILING DATE: 01-OCT-1997
72
73 (vii) PRIOR APPLICATION DATA:
74 (A) APPLICATION NUMBER: US 08/974,549
75 (B) FILING DATE: 19-NOV-1997
76
77 (vii) PRIOR APPLICATION DATA:
78 (A) APPLICATION NUMBER: US 08/974,584
79 (B) FILING DATE: 19-NOV-1997
80
81 (vii) PRIOR APPLICATION DATA:
82 (A) APPLICATION NUMBER: US 08/979,742
83 (B) FILING DATE: 26-NOV-1997
84
85 (viii) ATTORNEY/AGENT INFORMATION:
86 (A) NAME: Einhorn, Gregory P.
87 (B) REGISTRATION NUMBER: 38,440
88 (C) REFERENCE/DOCKET NUMBER: 015389-003110US
89
90 (ix) TELECOMMUNICATION INFORMATION:
91 (A) TELEPHONE: (415) 576-0200
92 (B) TELEFAX: (415) 576-0300
93
94
95 (2) INFORMATION FOR SEQ ID NO:1:
96
97 (i) SEQUENCE CHARACTERISTICS:
98 (A) LENGTH: 3496 base pairs
99 (B) TYPE: nucleic acid

RAW SEQUENCE LISTING PATENT APPLICATION US/09/042,460

DATE: 08/08/98
TIME: 15:56:31

INPUT SET: S27965.raw

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100          (C) STRANDEDNESS: single
101          (D) TOPOLOGY: linear
102
103      (ii) MOLECULE TYPE: DNA (genomic)
104
105
106      (ix) FEATURE:
107          (A) NAME/KEY: -
108          (B) LOCATION: 1..3496
109          (D) OTHER INFORMATION: /note= "mouse telomerase reverse
110                                  trascriptase (mTRT) cDNA clone"
111
112      (ix) FEATURE:
113          (A) NAME/KEY: misc_feature
114          (B) LOCATION: 10..3435
115          (D) OTHER INFORMATION: /note= "mouse telomerase reverse
116                                  transcriptase (mTRT) cDNA"
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118      (ix) FEATURE:
119          (A) NAME/KEY: CDS
120          (B) LOCATION: 39..3404
121          (D) OTHER INFORMATION: /product= "mouse telomerase reverse
122                                  transcriptase (mTRT)"
123
124
125      (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
126
127      GAATTCCGGG TGGGAGGCC ATCCCGGCCT TGAGCACA ATG ACC CGC GCT CCT      53
128                                  Met Thr Arg Ala Pro
129                                  1          5
130
131      CGT TGC CCC GCG GTG CGC TCT CTG CTG CGC AGC CGA TAC CGG GAG GTG      101
132      Arg Cys Pro Ala Val Arg Ser Leu Leu Arg Ser Arg Tyr Arg Glu Val
133                                  10          15          20
134
135      TGG CCG CTG GCA ACC TTT GTG CGG CGC CTG GGG CCC GAG GGC AGG CGG      149
136      Trp Pro Leu Ala Thr Phe Val Arg Arg Leu Gly Pro Glu Gly Arg Arg
137                                  25          30          35
138
139      CTT GTG CAA CCC GGG GAC CCG AAG ATC TAC CGC ACT TTG GTT GCC CAA      197
140      Leu Val Gln Pro Gly Asp Pro Lys Ile Tyr Arg Thr Leu Val Ala Gln
141                                  40          45          50
142
143      TGC CTA GTG TGC ATG CAC TGG GGC TCA CAG CCT CCA CCT GCC GAC CTT      245
144      Cys Leu Val Cys Met His Trp Gly Ser Gln Pro Pro Pro Ala Asp Leu
145                                  55          60          65
146
147      TCC TTC CAC CAG GTG TCA TCC CTG AAA GAG CTG GTG GCC AGG GTT GTG      293
148      Ser Phe His Gln Val Ser Ser Leu Lys Glu Leu Val Ala Arg Val Val
149      70          75          80          85
150
151      CAG AGA CTC TGC GAG CGC AAC GAG AGA AAC GTG CTG GCT TTT GGC TTT      341
152      Gln Arg Leu Cys Glu Arg Asn Glu Arg Asn Val Leu Ala Phe Gly Phe

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RAW SEQUENCE LISTING PATENT APPLICATION US/09/042,460

DATE: 08/08/98
TIME: 15:56:33

INPUT SET: S27965.raw

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155	GAG CTG CTT AAC	GAG GCC AGA GGC GGG CCT CCC ATG GCC TTC ACT AGT		389
156	Glu Leu Leu Asn	Glu Ala Arg Gly Gly Pro Pro Met Ala Phe Thr Ser		
157	105	110	115	
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159	AGC GTG CGT AGC TAC TTG CCC AAC ACT GTT ATT GAG ACC CTG CGT GTC			437
160	Ser Val Arg Ser Tyr Leu Pro Asn Thr Val Ile Glu Thr Leu Arg Val			
161	120	125	130	
162				
163	AGT GGT GCA TGG ATG CTA CTG TTG AGC CGA GTG GGC GAC GAC CTG CTG			485
164	Ser Gly Ala Trp Met Leu Leu Ser Arg Val Gly Asp Asp Leu Leu			
165	135	140	145	
166				
167	GTC TAC CTG CTG GCA CAC TGT GCT CTT TAT CTT CTG GTG CCC CCC AGC			533
168	Val Tyr Leu Leu Ala His Cys Ala Leu Tyr Leu Leu Val Pro Pro Ser			
169	150	155	160	165
170				
171	TGT GCC TAC CAG GTG TGT GGG TCT CCC CTG TAC CAA ATT TGT GCC ACC			581
172	Cys Ala Tyr Gln Val Cys Gly Ser Pro Leu Tyr Gln Ile Cys Ala Thr			
173	170	175	180	
174				
175	ACG GAT ATC TGG CCC TCT GTG TCC GCT AGT TAC AGG CCC ACC CGA CCC			629
176	Thr Asp Ile Trp Pro Ser Val Ser Ala Ser Tyr Arg Pro Thr Arg Pro			
177	185	190	195	
178				
179	GTG GGC AGG AAT TTC ACT AAC CTT AGG TTC TTA CAA CAG ATC AAG AGC			677
180	Val Gly Arg Asn Phe Thr Asn Leu Arg Phe Leu Gln Gln Ile Lys Ser			
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183	AGT AGT CGC CAG GAA GCA CCG AAA CCC CTG GCC TTG CCA TCT CGA GGT			725
184	Ser Ser Arg Gln Glu Ala Pro Lys Pro Leu Ala Leu Pro Ser Arg Gly			
185	215	220	225	
186				
187	ACA AAG AGG CAT CTG AGT CTC ACC AGT ACA AGT GTG CCT TCA GCT AAG			773
188	Thr Lys Arg His Leu Ser Leu Thr Ser Thr Ser Val Pro Ser Ala Lys			
189	230	235	240	245
190				
191	AAG GCC AGA TGC TAT CCT GTC CCG AGA GTG GAG GAG GGA CCC CAC AGG			821
192	Lys Ala Arg Cys Tyr Pro Val Pro Arg Val Glu Glu Gly Pro His Arg			
193	250	255	260	
194				
195	CAG GTG CTA CCA ACC CCA TCA GGC AAA TCA TGG GTG CCA AGT CCT GCT			869
196	Gln Val Leu Pro Thr Pro Ser Gly Lys Ser Trp Val Pro Ser Pro Ala			
197	265	270	275	
198				
199	CGG TCC CCC GAG GTG CCT ACT GCA GAG AAA GAT TTG TCT TCT AAA GGA			917
200	Arg Ser Pro Glu Val Pro Thr Ala Glu Lys Asp Leu Ser Ser Lys Gly			
201	280	285	290	
202				
203	AAG GTG TCT GAC CTG AGT CTC TCT GGG TCG GTG TGC TGT AAA CAC AAG			965
204	Lys Val Ser Asp Leu Ser Leu Ser Gly Ser Val Cys Cys Lys His Lys			
205	295	300	305	

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207	CCC	AGC	TCC	ACA	TCT	CTG	CTG	TCA	CCA	CCC	CGC	CAA	AAT	GCC	TTT	CAG		1013
208	Pro	Ser	Ser	Thr	Ser	Leu	Leu	Ser	Pro	Pro	Arg	Gln	Asn	Ala	Phe	Gln		
209	310					315					320					325		
210																		
211	CTC	AGG	CCA	TTT	ATT	GAG	ACC	AGA	CAT	TTC	CTT	TAC	TCC	AGG	GGA	GAT		1061
212	Leu	Arg	Pro	Phe	Ile	Glu	Thr	Arg	His	Phe	Leu	Tyr	Ser	Arg	Gly	Asp		
213					330					335					340			
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215	GGC	CAA	GAG	CGT	CTA	AAC	CCC	TCA	TTC	CTA	CTC	AGC	AAC	CTC	CAG	CCT		1109
216	Gly	Gln	Glu	Arg	Leu	Asn	Pro	Ser	Phe	Leu	Leu	Ser	Asn	Leu	Gln	Pro		
217				345				350						355				
218																		
219	AAC	TTG	ACT	GGG	GCC	AGG	AGA	CTG	GTG	GAG	ATC	ATC	TTT	CTG	GGC	TCA		1157
220	Asn	Leu	Thr	Gly	Ala	Arg	Arg	Leu	Val	Glu	Ile	Ile	Phe	Leu	Gly	Ser		
221			360					365					370					
222																		
223	AGG	CCT	AGG	ACA	TCA	GGA	CCA	CTC	TGC	AGG	ACA	CAC	CGT	CTA	TCG	CGT		1205
224	Arg	Pro	Arg	Thr	Ser	Gly	Pro	Leu	Cys	Arg	Thr	His	Arg	Leu	Ser	Arg		
225		375					380					385						
226																		
227	CGA	TAC	TGG	CAG	ATG	CGG	CCC	CTG	TTC	CAA	CAG	CTG	CTG	GTG	AAC	CAT		1253
228	Arg	Tyr	Trp	Gln	Met	Arg	Pro	Leu	Phe	Gln	Gln	Leu	Leu	Val	Asn	His		
229	390					395					400					405		
230																		
231	GCA	GAG	TGC	CAA	TAT	GTC	AGA	CTC	CTC	AGG	TCA	CAT	TGC	AGG	TTT	CGA		1301
232	Ala	Glu	Cys	Gln	Tyr	Val	Arg	Leu	Leu	Arg	Ser	His	Cys	Arg	Phe	Arg		
233				410						415					420			
234																		
235	ACA	GCA	AAC	CAA	CAG	GTG	ACA	GAT	GCC	TTG	AAC	ACC	AGC	CCA	CCG	CAC		1349
236	Thr	Ala	Asn	Gln	Gln	Val	Thr	Asp	Ala	Leu	Asn	Thr	Ser	Pro	Pro	His		
237				425					430					435				
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239	CTC	ATG	GAT	TTG	CTC	CGC	CTG	CAC	AGC	AGT	CCC	TGG	CAG	GTA	TAT	GGT		1397
240	Leu	Met	Asp	Leu	Leu	Arg	Leu	His	Ser	Ser	Pro	Trp	Gln	Val	Tyr	Gly		
241			440					445					450					
242		</																

PAGE: 1

SEQUENCE VERIFICATION REPORT
PATENT APPLICATION US/09/042,460

DATE: 08/08/98
TIME: 15:56:37

INPUT SET: S27965.raw

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